

Title (en)

DEVICE AND METHOD FOR CONTROLLING SWING OF CONSTRUCTION EQUIPMENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR STEUERUNG EINES SCHAUKELENS VON BAUAUSRÜSTUNGEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR COMMANDER LE PIVOTEMENT D'UN ÉQUIPEMENT DE CONSTRUCTION

Publication

**EP 2439344 A4 20170208 (EN)**

Application

**EP 10783564 A 20100601**

Priority

- KR 2010003503 W 20100601
- KR 20090048634 A 20090602

Abstract (en)

[origin: EP2439344A2] Disclosed is a swing control apparatus of construction machinery, including: a hydraulic pump 100 discharging working oil for driving a swing motor 120 and controlling a discharge flux according to an input pump command value  $V_{\text{pump}}$ ; a pressure sensor 102 sensing pressure of the working oil discharged from the hydraulic pump 100; and a control unit 150 calculating the pump command value  $V_{\text{pump}}$  based on a swing operation quantity  $V_{\text{sw}}$  input from the swing operation unit 130 to output the calculated pump command value to the hydraulic pump 100, wherein when the input swing operation quantity  $V_{\text{sw}}$  is larger than a preset reference swing operation quantity  $V_{\text{sw0}}$  and the discharge pressure  $P_{\text{pump}}$  of the hydraulic pump 100 detected by the pressure sensor 102 is lower than a first reference pressure  $P_{\text{swr1}}$ , the control unit 150 calculates a converted swing operation quantity  $V_{\text{sw}'}$  gradually increasing from the reference swing operation quantity  $V_{\text{sw0}}$  to the input swing operation quantity  $V_{\text{sw}}$  and calculates the pump command value  $V_{\text{pump}}$  of the hydraulic pump 100 corresponding to the converted swing operation quantity  $V_{\text{sw}'}$ .

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] EP 0545271 A1 19930609 - SAMSUNG HEAVY IND [KR]
- See references of WO 2010140815A2

Cited by

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